

# SURVEY CALCULATION SHEET

WELCO M.C.  
LYTTON B.C.  
TRAVERSE

800911

FIELD BOOK 1 - PAGE 142 DATE AUG. 19/62

Form N215. Clarke & Stuart Co. Ltd., Vancouver, B. C.

STATION OR COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COSINE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE	BEARING	COSINE	SINE	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	REMARKS
									N (+)	S (-)	E (+)	W (-)			
B.S.	INST. SET.	F.S.	H.I.				VERT. DIST.	ELEV.							
							W-2	5284.40				W-2	20,000.00	20,000.00	
W-1	W-2	W-3	139.81	+ 12°-06	+ 1.54	136.70	341°-00	569°-00E	+ 29.31	5315.25	48.99	127.62	19,951.01	20,127.62	STARTING POINTS
															ARE Δ <sup>S</sup> W1 & W2 SET
W-2	W-3	W-4	113.51	+ 16°-48	+ 1.50	108.67	179°-00	570°-00E	+ 32.81	5349.56	37.17	102.12	19,913.84	20,229.74	ON A 55°-00E
															BRUNTEN BEARING
W-3	W-4	W-5	127.48	+ 08°-41	+ 1.58	126.02	180°-00	570°-00E	+ 19.25	5370.39	43.10	118.42	19,870.74	20,348.16	(SKETCH ON BACK)
W-4	W-5	W-6	183.74	+ 02°-08	+ 1.67	183.61	176°-00	574°-00E	+ 6.84	5378.90	50.61	176.50	19,820.13	20,524.66	
W-5	W-6	W-7	132.35	+ 04°-27	+ 1.67	131.95	181°-00	573°-00E	+ 10.27	5390.84	38.58	126.18	19,781.55	20,650.84	
															W-8 ON SMALL RIDGE
W-6	W-7	W-8	279.18	+ 01°-30	+ 1.85	279.08	206°-20	546°-40E	+ 7.31	5400.00	191.52	203.00	19,590.03	20,853.84	N-E OF TRENCH AREA
W-7	W-8	W-9	266.65	- 08°-09	+ 1.64	263.97	151°-18	575°-22E	- 37.72	5363.92	66.69	255.41	19,523.34	21,109.25	
W-8	W-9	W-10	201.12	- 17°-45	+ 2.02	191.55	212°-28	542°-54E	- 62.14	5303.80	142.32	129.39	19,381.02	21,238.64	
W-9	W-10	W-11	163.25	- 17°-07	+ 1.58	156.97	147°-44	575°-10E	- 48.34	5257.04	40.19	152.74	19,340.83	21,391.38	
W-10	W-11	W-12	247.98	- 13°-23	+ 1.71	241.25	158°-38	N 83°-28E	- 57.40	5201.35	27.45	239.68	19,368.28	21,631.06	

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## CONTROL TRAVERSE

Form N215. Clarke & Stuart Co. Ltd., Vancouver, B. C.

WELCO M. C.  
LYTTON B. C.

### TRAVERSE

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B.S.	INST. STA.	STATION OR COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COSINE H.I.	HORIZONTAL DISTANCE	HORIZONTAL ANGLE	BEARING	COSINE VERT. DIST.	SINE ELEV.	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	REMARKS
											N (+)	S (-)	E (+)	W (-)			
		W-11	131.10	+ 00°-36	+ 1.58	131.09	167°-52	N 61°-20 E	+ 1.37	5204.30	62.89		115.02	19,328.28	21,331.06		
		W-12	174.21	+ 02°-28	+ 1.58	174.05	207°-37	N 88°-57 E	+ 7.50	5213.38	3.19		174.02	19,431.17	21,746.08		W-12 IS 4 INCH JACKPINE STUMP.
		W-13	123.43	+ 03°-28	+ 1.59	123.20	211°-26	S 59°-37 E	+ 7.46	5222.43	62.31	106.28		19,434.36	21,920.10		FROM W-13 TO W-14 CROSSES SMALL DR.
		W-14	220.77	- 03°-34	+ 1.42	220.34	180°-13	S 59°-24 E	- 13.73	5210.12		112.16	189.66	19,372.05	22,026.38		S.E. OF WORKINGS
		W-15	213.72	- 07°-30	+ 1.71	211.89	186°-09	S 53°-15 E	- 27.90	5183.93		126.18	168.98	19,259.89	22,216.04		W-16 SMALL JACKPINE STUMP APPROX. 50' NORTH OF TRAIL.
		W-16	122.48	+ 00°-10	+ 2.07	122.48	149°-29	S 83°-46 E	+ 0.36	5186.36		13.30	121.76	19,133.71	22,385.02		W-17 ON TRAIL
		W-17	39.10	- 10°-33	+ 1.67	38.44	176°-55	S 86°-51 E	- 7.16	5180.87		2.11	38.38	19,120.41	22,506.78		W-19 + 15.0' S-E TO CLAIM POSTS I.P. - WELCO #3-4 F.P. - " #1-2 C.P. ARE APPROX. 60.0 S. OF TRAIL.

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WELCO M.C.  
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CONTROL TRAVERSE TO S.W.  
Form N215. Clarke & Stuart Co. Ltd., Vancouver, B. C.

TRAVERSE

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B.S.	INST. STA.	STATION OR COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COSINE H.I.	HORIZONTAL DISTANCE	HORIZONTAL ANGLE	BEARING	COSINE VERT. DIST.	SINE ELEV.	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	REMARKS
											N (+)	S (-)	E (+)	W (-)			
															19,590.03	20,853.84	
W-7	W-8	W-20	217.45	02°-12	+ 1.56	217.29	256°-54	S30°-14W	- 8.35	5393.21		187.73	109.41	19,402.30	20,744.43	W-20 ON ROCK RIDGE BY TRENCHES.	
W-8	W-20	W-21	142.18	07°-49	+ 1.52	140.86	249°-43	N80°-03W	+ 19.34	5414.07	24.34		138.74	19,426.64	20,605.69		
W-8	W-20	W-22	480.90	13°-17	+ 1.52	468.03	84°-16	S65°-30E	- 110.49	5284.24		194.09	425.89	19,208.21	21,170.32		
W-20	W-22	CLAIM P.	50.67	05°-48	+ 2.03	50.41	129°-00	N63°-30E	- 5.12	5281.15	22.49		45.11	19,230.70	21,215.43	CLAIM POSTS. F.P. - WELCO 3-4 I.P. - WELCO 5-6	
W-20	W-21	W-23	33.68	06°-15	+ 1.45	33.48	56°-50	S23°-13E	- 3.67	5411.85		30.77	13.20	19,395.87	20,618.89		
W-20	W-21	W-24	103.05	01°-00	+ 1.45	103.03	184°-17	N75°-46W	+ 1.80	5417.32	25.33		99.87	19,451.97	20,505.82		
W-21	W-23	W-25	62.25	38°-15	+ 1.39	48.89	176°-47	S26°-26E	- 38.54	5374.70		43.78	21.76	19,352.09	20,640.65	W-25 RIGHT ALONG SIDE BRUNTEN STA. #4 & AT PORTAL OF OLD DRIFT.	
W-21	W-24	W-26	123.68	11°-25	+ 2.20	121.23	195°-31	N60°-15W	- 24.48	5395.04	60.16		105.25	19,512.13	20,400.57	W-26 ON DUMP OF OPEN CUT & ALONG SIDE BRUNTEN #8	
W-21	W-24	W-27	168.13	14°-27	+ 1.78	162.81	134°-55	S59°-09W	- 41.95	5377.15		83.49	139.77	19,368.48	20,366.05	START OF LOOP TO S.W.	
W-24	W-27	W-28	163.68	08°-34	+ 1.36	161.85	236°-40	N64°-11W	- 24.38	5354.13	70.48		145.70	19,438.96	20,220.35		

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LYTTON B.C.

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Form N215. Clarke & Stuart Co. Ltd., Vancouver, B. C.

## TRAVERSE

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B.S.	I.N.S. STA.	STATION OR COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COSINE H.I.	HORIZONTAL DISTANCE	HORIZONTAL ANGLE	BEARING	COSINE	SINE	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	REMARKS
									VERT. DIST.	ELEV.	N (+)	S (-)	E (+)	W (-)			
															19,438.96	20,220.35	
W-27	W-28	W-29	256.00	73°-26	+ 1.68	249.00	155°-43	N 88°-28 W	- 59.47	5296.34	6.66		248.91	19,445.62	19,971.44		
W-28	W-29	W-30	139.19	02°-11	+ 1.62	139.09	246°-59	N 61°-29 W	- 5.30	5292.66	66.40		122.22	19,512.02	19,849.22		
W-29	W-30	W-31	167.79	+ 09°-25	+ 1.57	165.53	212°-47	N 28°-42 W	+ 27.45	5321.68	145.19		79.49	19,657.21	19,769.73		
W-30	W-31	W-32	187.02	08°-16	+ 1.41	185.08	131°-06	N 77°-36 W	- 26.89	5296.20	39.74		180.76	19,696.95	19,588.97		
W-31	W-32	W-33	190.34	14°-51	+ 1.60	183.98	179°-35	N 78°-01 W	- 48.78	5249.02	38.20		179.97	19,735.15	19,409.00		
W-7	W-8	W-8A	200.25	00°-37	+ 1.56	200.24	121°-10	N 74°-30 E	- 2.16	5399.40	53.51		192.96	19,643.54	21,046.80	START OF LOOP TO N.E.	
W-8	W-8A	W-34	94.96	13°-00	+ 1.97	92.53	196°-53	S 88°-37 E	- 21.36	5380.01		2.23	92.50	19,641.31	21,139.30		
W-8A	W-34	W-35	68.36	18°-55	+ 1.71	64.67	172°-18	N 83°-41 E	- 22.16	5359.56	7.12		64.28	19,648.43	21,203.58		
W-34	W-35	W-36	199.20	26°-35	+ 1.69	178.14	173°-57	N 77°-38 E	- 89.14	5272.11	38.15		174.01	19,686.58	21,377.59		
W-35	W-36	W-37	198.55	07°-28	+ 1.82	196.87	203°-41	S 78°-41 E	- 25.80	5248.13		38.63	193.04	19,647.95	21,570.63		
W-36	W-37	W-38	151.82	08°-29	+ 1.73	150.16	175°-33	S 83°-08 E	- 22.40	5227.46		17.95	149.08	19,630.00	21,719.71		

206°(4) plotted on 100 scale map / L. OLSON.